

What is claimed is:

1. A capacitance measurement system having a test head comprising:

a plurality of input/output terminals connecting a device under test;

a source and measure unit supplying voltage or current;

a capacitance measurement unit having an impedance measurement function;
and

a switching matrix connecting said plurality of input/output terminals, said source and measure unit, and said capacitance measurement unit.
2. The capacitance measurement system of claim 1, wherein said test head comprises a test head controller for controlling said source and measure unit, said capacitance measurement unit, and said switching matrix.
3. The capacitance measurement system according to claim 1, wherein said test head comprises a calibration terminal of said capacitance measurement unit and an external connection terminal of said switching matrix, and said capacitance measurement unit and said switching matrix are connected via said calibration terminal and said external connection terminal.

4. The capacitance measurement system according to claim 1, wherein said capacitance measurement unit transmits an absolute value and phase of impedance of said device under test to said test head controller.

5. The capacitance measurement system according to claim 1, further comprising an external controller that is connected to said test head and controls said test head controller.

6. The capacitance measurement system according to claim 1, wherein said capacitance measurement unit transmits a value of a real part and an imaginary part of an impedance of said device under test to said test head controller.

7. The capacitance measurement system according to claim 2, wherein said capacitance measurement unit transmits an absolute value and phase of impedance of said device under test to said test head controller.

8. The capacitance measurement system according to claim 2, further comprising an external controller that is connected to said test head and controls said test head controller.

9. The capacitance measurement system according to claim 2, wherein said capacitance measurement unit transmits a value of a real part and an imaginary part of an impedance of said device under test to said test head controller.